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PATENT

DFW

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

Ri-Cheng Chian

Confirmation No.: 4884

Application No.: 10/506,713

Group Art Unit: 1645

Filing Date: May 17, 2005

Examiner: Not yet known

For: IN VITRO MATURATION OF IMMATURE HUMAN OOCYTES

DATE OF DEPOSIT: August 29, 2005

I HEREBY CERTIFY THAT THIS PAPER IS BEING DEPOSITED WITH THE UNITED STATES POSTAL SERVICE AS FIRST CLASS MAIL, POSTAGE PREPAID, ON THE DATE INDICATED ABOVE AND IS ADDRESSED TO THE UNITED STATES PATENT AND TRADEMARK OFFICE, P.O. BOX 1450, ALEXANDRIA, VA 22313-1450.

TYPED NAME: Andrew T. Serafini  
REGISTRATION NO.: 41,303

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

INFORMATION DISCLOSURE STATEMENT

Pursuant to 37 CFR § 1.56 and in accordance with 37 CFR §§ 1.97-1.98, information relating to the above-identified application is hereby disclosed. Inclusion of information in this statement is not to be construed as an admission that this information is material as that term is defined in 37 CFR § 1.56(b).

- ☒ In accordance with § 1.97(b), since this Information Disclosure Statement is being filed either within three months of the filing date of the above-identified application, within three months of the date of entry into the national stage of

the above identified application as set forth in § 1.491, before the mailing date of a first Office Action on the merits of the above-identified application, or before the mailing date of a first Office Action after the filing of request for continued examination under § 1.114, no additional fee is required.

- ☐ In accordance with § 1.97(c), this Information Disclosure Statement is being filed after the period set forth in § 1.97(b) above but before the mailing date of either a Final Action under § 1.116 or a Notice of Allowance under § 1.311, or before an action that otherwise closes prosecution in the application, therefore:

☐ Certification in Accordance with § 1.97(e) is attached; or

☐ The fee of \$180.00 as set forth in § 1.17(p) is attached.

- ☐ In accordance with § 1.97(d), this Information Disclosure Statement is being filed after the mailing date of either a Final Action under § 1.113 or a Notice of Allowance under § 1.311 but before, or simultaneously with, the payment of the Issue Fee, therefore included are: Certification in Accordance with § 1.97(e); and the submission fee of \$180.00 as set forth in § 1.17(p).

- ☒ Copies of reference numbers B1 - B10 and C1 - C73 listed on the attached Forms PTO-1449 (Modified) are enclosed herewith.

- ☒ Copies of reference numbers A1 – A6 on the attached Form PTO 1449 are not required to be submitted pursuant to 37 CFR § 1.98(a)(2)(i).

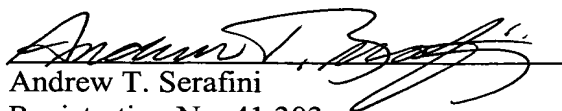
- ☐ Copies of references - are not being submitted because they were previously cited by or submitted to the U.S. Patent and Trademark Office in patent application number , filed for which a claim for priority under 35 U.S.C. § 120 has been made in the instant application.

☐ The relevance of those listed references which are not in the English language is as follows:

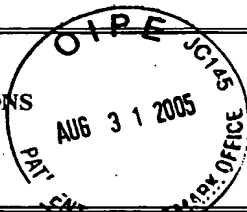
There are no listed references which are not in the English language.

Please charge any deficiency or credit any overpayment to Deposit Account No. 23-3050. This form is submitted in duplicate.

Date: August 29, 2005

  
Andrew T. Serafini  
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<b>Form PTO-1449 (Modified)</b>  <b>LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT</b> (Use several sheets if necessary)			Atty. Docket No. S&B-0005	Serial No. 10/506,713
	Applicant Ri-Cheng CHIAN			
	Filing Date May 17, 2005	Group Not yet assigned		

**REFERENCE DESIGNATION U.S. PATENT DOCUMENTS**

EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FIL. DATE IF APPROPRIATE
	A1	4,987,080	01/22/1991	GROB et al.			
	A2	5,563,059	10/08/1996	ALAK et al.			
	A3	5,882,928	03/16/1999	MOSES, R. M.			
	A4	6,211,429	04/03/2001	Machaty et al.			

**FOREIGN PATENT DOCUMENTS**

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION	
							YES	NO
	B1	90/13627	11/15/1990	WO				
	B2	95/03817	02/09/1995	WO				
	B3	99/67365	12/29/1999	WO				
	B4	00/32140	06/08/2000	WO				
	B5	00/50065	08/31/2000	WO				

**OTHER ART (including Author, Title, Date, Pertinent Pages, Etc.)**

	C1	ADAMS, J., et al., "Prevalence of polycystic ovaries in women with anovulation and idiopathic hirsutism", (1986) Br. Med. J., Vol. 293, p. 355-359.
	C2	ADAMSON, E.D., "Activities of growth factors in preimplantation embryos", (1993) J. Cell. Biochem., Vol. 53, No. 4, p. 280-287.
	C3	AVERY, B., et al., "Development of bovine oocytes, in vitro matured in a chemically defined protein-free medium, supplemented with different amino acid formulations", (1998) Theriogenology, Vol. 49, p. 306.
	C4	BAE, I.H., et al., "Utilization of glutamine for energy and protein synthesis by cultured rabbit follicular oocytes", (1975) Exptl. Cell. Res., Vol. 90, p. 432-436.
	C5	BARNES, F.L., et al., "Blastocyst development and birth after in-vitro maturation of human primary oocytes, intracytoplasmic sperm injection and assisted hatching", (1995) Hum. Reprod., Vol. 10, No. 12, p. 3243-3247.
	C6	BEHBOD, F., et al., "Will cancer stem cells provide new therapeutic targets?", (2004) Carcinogenesis, Vol. 26, No. 4, p. 703-711.
	C7	BEVERS, M.M., et al, "Regulation and modulation of oocyte maturation in the bovine", (1997) Theriogenology, Vol. 47, p. 13-22.
	C8	BIGGERS, J.D., et al., "The pattern of energy metabolism in the mouse oocyte and zygote", (1967) Proc. Natl. Acad. Sci. USA, Vol. 58, p. 560-567.
	C9	BLONDIN, P., et al, "Oocyte and follicular morphology as determining characteristics for developmental competence in bovine oocytes", (1995) Mol. Reprod. Dev., Vol. 41, p. 54-62.
	C10	BRACKETT, B.G., et al., "Analysis of factors involved in the in vitro production of bovine embryos", (1993) Theriogenology, Vol. 39, p. 43-64.
	C11	BRAW-TAL, R., "Expression of mRNA for follisatin and inhibin/activin subunits during follicular growth and atresia", (1994) J. Mol. Endocrinol., Vol. 13, p. 253-264.
	C12	BRINSTER, R.L., "Radioactive carbon dioxide production from pyruvate and lactate by the preimplantation rabbit embryo", (1969) Exp. Cell. Res., Vol. 54, p. 205-209.
	C13	BRINSTER, R.L., "Oxidation of pyruvate and glucose by oocytes of the mouse and rhesus monkey", (1971), J. Reprod. Fert., Vol. 24, p. 187-191.

EXAMINER	DATE CONSIDERED
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EXAMINER:

Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FIL. DATE IF APPROPRIATE
	A5	6,281,013	08/28/2001	Grøndahl			
	A6	2001/0028878 (Published Appln.)	10/11/2001	Lindenberg et al.			

**FOREIGN PATENT DOCUMENTS**

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION	
							YES	NO
	B6	00/50066	08/31/2000	WO				
	B7	01/38493	05/31/2001	WO				

**OTHER ART (including Author, Title, Date, Pertinent Pages, Etc.)**

	C14	CEKLENIK, N.A., et al., "A novel system for in vitro maturation of human oocytes", (2001) Fertil. Steril., Vol. 75, No. 6, p. 1185-1193.
	C15	CHA, K.Y., et al., "Pregnancy after in vitro fertilization of human follicular oocytes collected from nonstimulated cycles, their culture in vitro and their transfer in a donor oocyte program", (1991) Fertil. Steril., Vol. 55, No. 1, p. 109-113.
	C16	CHA, K.Y., et al., "Maturation in vitro of immature human oocytes for clinical use", (1998) Hum. Reprod. Update, Vol. 4, No. 2, p. 103-120.
	C17	CHIAN, R.C., et al., "Effects of cumulus cells on male pronuclear formation and subsequent early development of bovine oocytes in vitro", (1994) Theriogenology, Vol. 41, p. 1499-1508.
	C18	CHIAN, R.C., et al., "Effects of cumulus cells and follicle-stimulating hormone during in vitro maturation on parthenogenetic activation of bovine oocytes", (1995) Mol. Reprod. Dev., Vol. 42, p. 425-431.
	C19	CHIAN, R.C., et al., "Molecular and structural characteristics between immature human oocytes retrieved from stimulated and unstimulated ovaries" (1997) Gomel V., et al. (eds.), The World Congress on In Vitro Fertilization and Assisted Reproduction; Monduzzi, Bologna, p. 315-319.
	C20	CHIAN, R.C., et al., "Pregnancies resulting from in vitro matured oocytes retrieved from patients with polycystic ovary syndrome after priming with human chorionic gonadotropin", (1999) Fertil. Steril., Vol. 72, p. 639-642.
	C21	CHIAN, R.C., et al., "Priming with human chorionic gonadotropin before retrieval of immature oocytes in women with infertility due to the polycystic ovary syndrome", (1999) New Eng. J. Med., Vol. 341, p. 1624, 1626.
	C22	CHIAN, R.C., et al., "Production of steroids from human cumulus cells treated with different concentrations of gonadotropins during culture in vitro", (1999) Fertil. Steril., Vol. 71, p. 61-66.
	C23	CHIAN, R.C., et al., "Prospective randomized study of human chorionic gonadotrophin priming before immature oocyte retrieval from unstimulated women with polycystic ovarian syndrome", (2000) Hum. Reprod., Vol. 15, No. 1, p. 165-170.
	C24	CHIAN, R.C., et al., "Pregnancy and delivery after cryopreservation of zygotes produced by in-vitro matured oocytes retrieved from a woman with polycystic ovarian syndrome", (2001) Hum. Reprod., Vol. 16, No. 8, p. 1700-1702.
	C25	CHIAN, R.C., et al., "Maturation and developmental competence of cumulus-free immature human oocytes derived from stimulated and intracytoplasmic sperm injection cycles", Reproductive BioMedicine Online, Vol. 5, No. 2, p. 125-132, <a href="http://www.rbmonline.com/Article/696">www.rbmonline.com/Article/696</a> on web 1 August.
	C26	CROSBY, I.M., et al., "Follicle cell regulation of protein synthesis and developmental competence in sheep oocytes", (1981) J. Reprod. Fert., Vol. 62, p. 575-582.
	C27	CROSS, P.C., "The role of cumulus cells and serum in mouse oocyte maturation in vitro", (1973) J. Reprod. Fert., Vol. 34, p. 241-245.
	C28	CROSS, P.C., et al., "In vitro development of mouse oocytes", (1970) Biol. Reprod., Vol. 3, p. 298-307.
	C29	DE VOS, A., et al., "In-vitro matured metaphase-I oocytes have a lower fertilization rate but similar embryo quality as mature metaphase-II oocytes after intracytoplasmic sperm injection", (1999) Hum. Reprod., Vol. 14, No. 7, p. 1859-1863.

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**FOREIGN PATENT DOCUMENTS**

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION	
						YES	NO
B8	01/76360	10/18/2001	WO				
B9	2,199,663	09/11/1998	CA				

**OTHER ART (including Author, Title, Date, Pertinent Pages, Etc.)**

C30	DEKEL, N., "Regulation of oocyte maturation. The role of cAMP", (1988) Ann. NY. Acad. Sci., Vol. 541, p. 211-216.
C31	DIRNFELD, M., et al., "Functional differentiation in progesterone secretion by granulosa versus cumulus cells in the human preovulatory follicle and the effect of different induction of ovulation protocols", (1993) Fertil. Steril., Vol. 60, No. 6, p. 1025-1030.
C32	DONAHUE, R.P., et al., "Follicular cell support of oocyte maturation: production of pyruvate in vitro", (1968) J. Reprod. Fertil., Vol. 17, p. 395-398.
C33	DOWNS, S.M., et al., "The participation of energy substrates in the control of meiotic maturation in murine oocytes", (1994) Dev. Biol., Vol. 162, p. 154-168.
C34	EDIRISINGHE, W.R., et al., "Birth from cryopreserved embryos following in vitro maturation of oocytes and intracytoplasmic sperm injection", (1997) Hum. Reprod., Vol. 12, No. 5, p. 1056-1058.
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C36	FUKUI, Y., "Effect of follicle cells on the acrosome reaction, fertilization, and developmental competence of bovine oocytes matured in vitro", (1990) Mol. Reprod. Dev., Vol. 26, p. 40-46.
C37	GESHI, M., et al., "Effects of sodium pyruvate in nonserum maturation medium on maturation, fertilization, and subsequent development of bovine oocytes with or without cumulus cells", (2000) Biol. Reprod., Vol. 63, p. 1730-1734.
C38	GOLDMAN, S., et al., "Different morphology and proliferative ability of cumulus and granulosa cells originating from cystic follicles aspirated from stimulated in vitro fertilization patients", (1993) Fertil. Steril., Vol. 59, No. 3, p. 601-605.
C39	GOUD, P.T., et al., "In-vitro maturation of human germinal vesicle stage oocytes: role of cumulus cells and epidermal growth factor in the culture medium", (1998) Hum. Reprod., Vol. 13, p. 1638-1644.
C40	GROSS-WEEGE, W., et al., "Inhibition of histamine release from rat peritoneal mast cells by a factor from human serum — identification as transferrin", (1986) Agents Actions, Vol. 19, p. 10-17.
C41	GWATKIN, R.B.L., et al., "Requirements for the maturation of hamster oocytes in vitro", (1973) Exp. Cell. Res., Vol. 76, p. 1-7.

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**FOREIGN PATENT DOCUMENTS**

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION	
						YES	NO
B10	2000-1017160	01/23/2001	JP			Abstract Only	

**OTHER ART (including Author, Title, Date, Pertinent Pages, Etc.)**

C42	JAROUDI, K.A., et al., "Embryo development and pregnancies from in vitro matured and fertilized human oocytes", (1999) Hum. Reprod., Vol. 14, No. 7, p. 1749-1751.
C43	KANE, M.T., et al., "Peptide growth factors and preimplantation development", (1997) Hum. Reprod. Update, Vol. 3, No. 2, p. 137-157.
C44	KENNEDY, J., et al., "Human Oocytes: Maturation in Chemically Defined Media", (1969) Science, Vol. 164, p. 1292-1293.
C45	KIM, H., et al., "Regulation of nuclear membrane assembly and maintenance during in vitro maturation of mouse oocytes: role of pyruvate and protein synthesis", (1991) Cell. Tissue Res., Vol. 265, p. 105-112.
C46	LAUFER, N., et al., "Asynchrony between human cumulus-corona cell complex and oocyte maturation after human menopausal gonadotropin treatment for in vitro fertilization", (1984) Fertil. Steril., Vol. 42, No. 3, p. 366-372.
C47	LEESE, H.J., et al., "Pyruvate and glucose uptake by mouse ova and preimplantation embryos", (1984) J. Reprod. Fert., Vol. 72, p. 9-13.
C48	LIU, J., et al., "Successful in vitro maturation of human oocytes not exposed to human chorionic gonadotropin during ovulation induction, resulting in pregnancy", (1997) Fertil. Steril., Vol. 67, No. 3, p. 566-568.
C49	MacDOUGALL, M.J., et al., "A controlled study comparing patients with and without polycystic ovaries undergoing in-vitro fertilization", (1993) Hum. Reprod., Vol. 8, No. 2, p. 233-237.
C50	MALAMITSI-PUCHNER, A., et al., "Concentrations of angiogenic factors in follicular fluid and oocyte-cumulus complex culture medium from women undergoing in vitro fertilization: Association with oocyte maturity and fertilization", (2001) Fertility and Sterility, Vol. 76, No. 1, p. 98-101.
C51	MARUO, T., et al., "Expression of epidermal growth factor and its receptor in the human ovary during follicular growth and regression", (1993) Endocrinology, Vol. 132, No. 2, p. 924-931.
C52	MOOR, R.M., et al., "Hormonal and follicular factors affecting maturation of sheep oocytes in vitro and their subsequent developmental capacity", (1977) J. Reprod. Fert., Vol. 49, p. 101-109.

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	C53	MORGAN, P.M., et al., "In vitro maturation of ovarian oocytes from unstimulated rhesus monkeys: assessment of cytoplasmic maturity by embryonic development after in vitro fertilization", (1991) Biol. Reprod., Vol. 45, p. 89-93.
	C54	NAGY, Z.P., et al., "Pregnancy and birth after intracytoplasmic sperm injection of in vitro matured germinal-vesicle stage oocytes: case report", (1996) Fertil. Steril., Vol. 65, No. 5, p. 1047-1050.
	C55	NIWA, K., et al., "Fertilization of rat eggs in vitro at various times before and after ovulation with special reference to fertilization of ovarian oocyte matured in culture", (1975) J. Reprod. Fert., Vol. 43, p. 435-451.
	C56	PATSOULA, E., et al., "Expression of mRNA for the LH and FSH receptors in mouse oocytes and preimplantation embryos", (2001) Reproduction, Vol. 121, p. 455-461.
	C57	PRINS, G.S., et al., "Gonadotropins augment maturation and fertilization of human immature oocytes cultured in vitro", (1987) Fertil. Steril., Vol. 47, No. 6, p. 1035-1037.
	C58	ROSE, T.A., et al., "Effect of oocyte maturation medium on in vitro development of in vitro fertilized bovine embryos", (1992) Mol. Reprod. Dev., Vol. 31, p. 72-77.
	C59	SCHROEDER, A.C., et al., "Factors affecting the developmental capacity of mouse oocytes undergoing maturation in vitro", (1988) Ann. NY. Acad. Sci., Vol. 541, p. 197-204.
	C60	SCHULTZ, R.M., et al., "Regulation of oocyte maturation in the mouse: possible roles of intercellular communication, cAMP and testosterone", (1983) Dev. Biol., Vol. 95, p. 294-304.
	C61	SHEA, B.F., et al., "Human follicular oocytes and their maturation in vitro", (1975) Fertil. Steril., Vol. 26, No. 11, p. 1075-1082.
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	C62		STEPTOE, J.D., et al., "Birth after the reimplantation of a human embryo", (1978) Lancet, ii:366.
	C63		TROUSON, A., et al., "In vitro maturation and fertilization and developmental competence of oocytes recovered from untreated polycystic ovarian patients", (1994) Fertil. Steril., Vol. 62, No. 2, p. 353-362.
	C64		TROUSON, A., et al., "Oocyte maturation", (1998) Hum. Reprod., Vol. 13, p. 52-62.
	C65		TROUSON, A., et al., "Maturation of human oocytes in vitro and their developmental competence", (2001) Reproduction, Vol. 121, p. 51-75.
	C66		TUCKER, M.J., et al., "Birth after cryopreservation of immature oocytes with subsequent in vitro maturation", (1998) Fertil. Steril., Vol. 70, No. 3, p. 578-579.
	C67		VAN BLERKOM, J., et al., "Molecular differentiation of the rabbit ovum. I. During oocyte maturation in vivo and in vitro", (1978) Develop. Biol., Vol. 63, p. 139-150.
	C68		VAN BLERKOM, J., et al., "Molecular differentiation of the rabbit ovum. II. During the preimplantation development of in vivo and in vitro matured oocytes", (1978) Develop. Biol., Vol. 63, p. 151-164.
	C69		VANDERHYDEN, B.C., et al., "Role of cumulus cells and serum on the in vitro maturation, fertilization, and subsequent development of rat oocytes", (1989) Biol. Reprod., Vol. 40, p. 720-728.
	C70		VEECK, L.L., et al., "Maturation and fertilization of morphologically immature human oocytes in a program of in vitro fertilization", (1983) Fertil. Steril., Vol. 39, No. 5, p. 594-602.
	C71		WARNES, G.M., et al., "Changes in protein synthesis during maturation of sheep oocytes in vivo and in vitro", (1977) J. Reprod. Fert., Vol. 49, p. 331-335.
	C72		WATSON, R., et al., "Reverse transcription with nested polymerase chain reaction shows expression of basic fibroblast growth factor transcripts in human granulosa and cumulus cells from in vitro fertilisation patients", (1992) Biochemical and Biophysical Research Communications, Vol. 187, No. 3, p. 1227-1231.
	C73		WYNN, P., et al., "Pretreatment with follicle stimulating hormone promotes the numbers of human oocytes reaching metaphase II by in-vitro maturation", (1998) Hum. Reprod., Vol. 13, No. 11, p. 3132-3138.
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